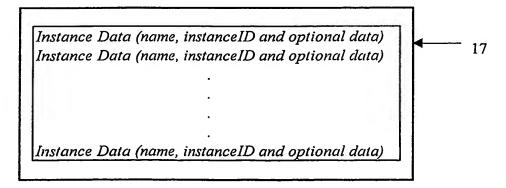
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Figure 1: Model Specification

12 11 **Model Specification** 10 Item Array Cell contents Item name Item Determinant 13 Name Determinant Cell contents Cell contents Name Determinant Cell contents Name Determinant Name Determinant Cell contents Cell contents Determinant Name 14 Report Array 16 Report Formatting information Report Formatting information 15 Formatting information Report Formatting information Report

Figure 2: Model Input Data



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24 20 Steps 1 and 2 Model Input Data Scan Model Input Data and record Record Input Instances Instances in IIDB Item Instance Database Repeat Step 3 Step 3: performed Item Name InstanceID for each Item: Item Name InstanceID Model Specification Step 3a: Item Name InstanceID Read Read 22 Determinant read Item Instances Item Name InstanceID Determinant; Item Name InstanceID 21 Consolidated Build read IIDB: Instance Array build CIA. CIA 25 (created for each Item (grows with Model) 23 Step 3b: and destroyed after Item use Item Use Determinant has been CIA Determinant and CIA evaluated) to identify new Instances; Add new Instances identified in Step 3 Step 4: have any Yes new Instances been 27 added to IIDB? No Proceed to allocate rows and write cell contents

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Figure 3: Method of Determining Item Instances